

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L31	1	"6603496"	US-PGPUB; USPAT	OR	ON	2007/04/16 07:50
L32	6	"5943477"	US-PGPUB; USPAT	OR	ON	2007/04/16 09:39
S1	481	(358/3.06).ccls.	US-PGPUB; USPAT	OR	ON	2007/04/11 07:22
S2	68	(dot-gain or "dot gain") adj4 reduc\$5	US-PGPUB; USPAT	OR	ON	2007/03/12 17:46
S3	1	S1 and S2	US-PGPUB; USPAT	OR	ON	2007/03/12 17:41
S4	3730	colo\$4 adj6 halfton\$5	US-PGPUB; USPAT	OR	ON	2007/03/12 17:47
S5	42216	multi-level or "multi\$level"	US-PGPUB; USPAT	OR	ON	2007/03/12 17:48
S6	27222	"multi level"	US-PGPUB; USPAT	OR	ON	2007/03/12 17:48
S7	26691	S5 and S6	US-PGPUB; USPAT	OR	ON	2007/03/12 17:48
S8	42747	S5 or S6	US-PGPUB; USPAT	OR	ON	2007/03/12 17:49
S9	455	S4 and S8	US-PGPUB; USPAT	OR	ON	2007/03/12 17:50
S10	1423	"dot gain" or dot-gain	US-PGPUB; USPAT	OR	ON	2007/03/12 17:50
S11	54	S9 and S10	US-PGPUB; USPAT	OR	ON	2007/03/12 17:50
S12	7298	358/1.9 or 358/504 or 358/3.24 or 358/534 or 358/3.26	US-PGPUB; USPAT	OR	ON	2007/04/10 17:00
S13	336	halfton\$4 adj4 ("dot pattern")	US-PGPUB; USPAT	OR	ON	2007/04/10 17:01
S14	81	S12 and S13	US-PGPUB; USPAT	OR	ON	2007/04/10 17:02
S15	1435	"dot gain" or dot-gain	US-PGPUB; USPAT	OR	ON	2007/04/10 17:03
S16	0	S15 near5 "redu\$6 curve"	US-PGPUB; USPAT	OR	ON	2007/04/10 17:03
S17	3743	reduc\$6 adj3 curve	US-PGPUB; USPAT	OR	ON	2007/04/10 17:04
S18	2	S15 and S17	US-PGPUB; USPAT	OR	ON	2007/04/10 17:05
S19	23	"4706206"	US-PGPUB; USPAT	OR	ON	2007/04/10 17:07

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S20	34	"5602572"	US-PGPUB; USPAT	OR	ON	2007/04/10 17:15
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S23	4	"6917448"	US-PGPUB; USPAT	OR	ON	2007/04/11 07:53
S24	24	CHANG-CHING-WEI	US-PGPUB; USPAT	OR	ON	2007/04/11 08:31
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S27	1	"6376138"	US-PGPUB; USPAT	OR	ON	2007/04/11 08:37
S28	7	"6072592"	US-PGPUB; USPAT	OR	ON	2007/04/11 08:40
S29	34	"5602572"	US-PGPUB; USPAT	OR	ON	2007/04/11 08:40
S30	10108	correct\$4 near4 curve	US-PGPUB; USPAT	OR	ON	2007/04/11 08:41
S31	27866	pixel near4 pattern\$4	US-PGPUB; USPAT	OR	ON	2007/04/11 08:41
S32	1804066	pre-stored or "pre stored" or predetermined	US-PGPUB; USPAT	OR	ON	2007/04/11 08:41
S33	17088	S31 and S32	US-PGPUB; USPAT	OR	ON	2007/04/11 08:42
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S39	52	S38 and (reduc\$5 or compensa\$5)	US-PGPUB; USPAT	OR	ON	2007/04/11 16:21
S40	1821717	S32 or pre-selected	US-PGPUB; USPAT	OR	ON	2007/04/11 08:46
S41	309	S30 and S31	US-PGPUB; USPAT	OR	ON	2007/04/11 08:46

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S58	167	S57 and S56	US-PGPUB; USPAT	OR	ON	2007/04/12 07:27
S59	11751	pixel\$3 adj3 pattern	US-PGPUB; USPAT	OR	ON	2007/04/12 07:28
S60	36	S58 and S59	US-PGPUB; USPAT	OR	ON	2007/04/12 07:28
S61	1431658	compensat\$4 or correct\$4	US-PGPUB; USPAT	OR	ON	2007/04/12 07:28
S62	28	S60 and S61	US-PGPUB; USPAT	OR	ON	2007/04/12 07:29
S63	27	S62 and (color or colour)	US-PGPUB; USPAT	OR	ON	2007/04/12 07:34

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S67	52	S66 and S61	US-PGPUB; USPAT	OR	ON	2007/04/12 07:35
S68	51	S67 and (color or colour)	US-PGPUB; USPAT	OR	ON	2007/04/12 07:37
S69	7934	(surround or peripheral) near4 pixel	US-PGPUB; USPAT	OR	ON	2007/04/12 14:20
S70	539378	matri\$5	US-PGPUB; USPAT	OR	ON	2007/04/12 07:40
S71	34	S68 and S70	US-PGPUB; USPAT	OR	ON	2007/04/12 11:01
S72	5	"6332044"	US-PGPUB; USPAT	OR	ON	2007/04/12 08:52
S73	172	"4847641"	US-PGPUB; USPAT	OR	ON	2007/04/12 08:53
S74	160	S73 and tung	US-PGPUB; USPAT	OR	ON	2007/04/12 08:53
S75	74	S74 and bitmap	US-PGPUB; USPAT	OR	ON	2007/04/12 09:08
S76	4958	358/1.9	US-PGPUB; USPAT	OR	ON	2007/04/12 09:09
S77	386	S76 and S59	US-PGPUB; USPAT	OR	ON	2007/04/12 09:09
S78	246	S77 and S61	US-PGPUB; USPAT	OR	ON	2007/04/12 09:09
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S82	4	"6741735"	US-PGPUB; USPAT	OR	ON	2007/04/12 11:06
S83	385	S55 and (calibrat\$5)	US-PGPUB; USPAT	OR	ON	2007/04/12 11:07
S84	52	S83 and S59	US-PGPUB; USPAT	OR	ON	2007/04/12 11:07
S85	30	S84 and S70	US-PGPUB; USPAT	OR	ON	2007/04/12 11:38

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S88	17507	(surround\$4 or peripheral) near4 pixel	US-PGPUB; USPAT	OR	ON	2007/04/12 14:20
S89	36	"5696845"	US-PGPUB; USPAT	OR	ON	2007/04/12 14:58
S90	60	"5387985"	US-PGPUB; USPAT	OR	ON	2007/04/12 14:58
S91	17	"5724455"	US-PGPUB; USPAT	OR	ON	2007/04/12 15:01
S92	48	"5579445"	US-PGPUB; USPAT	OR	ON	2007/04/12 15:01
S93	16	"5150311"	US-PGPUB; USPAT	OR	ON	2007/04/13 08:07
S94	2	"5949963"	US-PGPUB; USPAT	OR	ON	2007/04/13 08:12
S95	2	"20020024687"	US-PGPUB; USPAT	OR	ON	2007/04/13 08:19
S96	1	"7130082"	US-PGPUB; USPAT	OR	ON	2007/04/13 08:25
S97	2	"6804417"	US-PGPUB; USPAT	OR	ON	2007/04/13 09:36
S98	9	"6575095"	US-PGPUB; USPAT	OR	ON	2007/04/13 09:36

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calibration curve, peripheral surrounding pixel

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Web Results 1 - 10 of about 30,000 for **calibration curve, peripheral surrounding pixel pattern determines**

Scholarly articles for calibration curve, peripheral surrounding pixel pattern determines color of central pixel



Calibration technique for test patterns from multiple ... - Hallacher - Cited by 3
Pre-processing Colour Images with a Self-Organising Map: ... - Hamey - Cited by 3
Colorimeter and **calibration** system - Keesee - Cited by 59

Microlocal calibration of digital printers - US Patent 5943477

2 is a matrix of **pixels** in the 1-neighborhood of a **central pixel** (shown in ... description of the **pixel** coverage, depending on the **surrounding pattern**. ...

www.patentstorm.us/patents/5943477-description.html - 44k - [Cached](#) - [Similar pages](#)

Method of corneal analysis using a checkered placido apparatus ...

These calculated **pixel** distances are compared to the **calibration curve** to ... of weighting and using the **surrounding pixel** information to **determine** where ...

www.patentstorm.us/patents/5841511-description.html - 105k - [Cached](#) - [Similar pages](#)

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[PDF] Pre-processing Colour Images with a Self-Organising Map: Baking ...

File Format: PDF/Adobe Acrobat

The distribution of data in a typical baking **curve** has a dense **central** core of biscuit **colour** **pixels** with noise pro- ducing a **surrounding** scatter. ...

ieeexplore.ieee.org/iel4/5726/15322/00712071.pdf?arnumber=712071 - [Similar pages](#)

[PDF] Visualization of dynamic subcutaneous vasomotor response by ...

File Format: PDF/Adobe Acrobat

However, pseudo-**colors** destroy the connectivity of. vascular **patterns** since the intravenous ... n **pixels** conserves the **central pixel** value if at least (N/2) ...

ieeexplore.ieee.org/iel1/10/3176/00102794.pdf?arnumber=102794 - [Similar pages](#)

Calibration technique for test patterns from multiple color inkjet ...

A method of sensing **calibration** test **patterns** made by multiple inkjet ... **color** printhead spaced a same distance apart and having a multiple **pixel** width; ...

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Charge coupled device based blemish detection system and method ...

1a is projected onto the lensing system and the **pattern** 15a of FIG. ... The difference between the average signal and the **central pixel** signal is eight and ...

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Bay Photo Lab

Color curves - A mechanism for controlling **color** changes, and matching **colors**. ...

Dynamic range - The **color** or shade of gray assigned to each **pixel**. ...

www.bayphoto.com/glossary/digglos.html - 29k - [Cached](#) - [Similar pages](#)

Glossary of Terms

A Matrix for comparison of **central pixels** to **surrounding pixels**. ... **Color curves** are set by user-adjustable lookup tables that define a **color** transform, ...

www.modernimaging.com/glossary_of_terms.htm - 49k - [Cached](#) - [Similar pages](#)

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Industrial Application] This invention relates to the array structure of the monochrome of the array structure of the printing component of an one-line print head, and 1 scanning-line display mold, or the image display component of an electrochromatic display, and the array structure of the image display component of a color cathode-ray tube or a color liquid crystal display.

[0002]

[Description of the Prior Art] 1 is an one-line print head or the screen of a cathode-ray tube, and 2 is a printing component or a monochromatic image display component, and it is formed in a longwise short form, and drawing 7 is drawing showing the array of the printing component of the conventional one-line print head, or the array of the image display component of the monochrome cathode-ray tube of 1 scanning-line display mold, and it is arranged [the gap 4 of constant width dh is maintained on $3h$ of array lines and].

[0003] 5 is the color picture screen for the 1 scanning line, and 6G, 6R, and 6B are green, red, and a blue image display component, and it is formed in a longwise short form, and on $3h$ of three parallel array lines, drawing 8 is drawing showing the array of the image display component of the color cathode-ray tube of 1 conventional scanning-line display mold, and it is arranged [the gap 7 of width of face dv is maintained, and] by the gap 4 of constant width dh , and the perpendicular direction.

[0004] Drawing 9 is drawing showing the array of the image display component of the conventional shadow mask mold color cathode-ray tube. To the screen 8 The image display components 6R, 6G, and 6B that it is also in the gap 7 of width of face dv on vertical array line $3v$, respectively moreover, a longitudinal direction It is arranged that it is also in the gap 4 of width of face dh , and still more horizontally, by making the image display component of three colors into a lot, two part shifts 1 pitch ($P/2$) every to a lengthwise direction, and it is arranged in it.

[0005] Drawing 10 is drawing showing the array of the image display component of the conventional color liquid crystal display, and the image display components 6R, 6G, and 6B formed at a little oblong short form on $3h$ of horizontal array lines and vertical array line $3v$ maintain the gaps 4 and 7 of width of face dh and dv , and it is arranged.

[0006]

[Problem(s) to be Solved by the Invention] The non-printed section formed of a gap 4 although printed moving in the direction vertical to $3h$ of array lines of arrow-head A to a print form became pinstripes, the one-line print head 1 shown in drawing 7 appeared, and there was a trouble that the quality of a printing screen deteriorated.

[0007] Moreover, although the monochrome cathode-ray tube of 1 scanning line display mold displayed the screen by deflect perpendicularly the monochrome image for the 1 scanning line form on the screen 1 to $3h$ of array lines synchronizing with a Vertical Synchronizing signal using the optical vertical deflection means which be illustrate, since the non-display form of a gap 4 served as pinstripes and appeared, it had the trouble that image quality deteriorated.

[0008] Moreover, although the color cathode-ray tube of 1 scanning-line display mold shown in drawing 8 carried out vertical deflection of the color picture for the 1 scanning line formed on the screen 5 with the optical vertical deflection means and displayed the color screen, since the non-display by the gap 4 served as pinstripes and appeared, it had the trouble that image quality deteriorated.

[0009] Moreover, in the color cathode-ray tube shown in drawing 9, with the color liquid crystal display which there is a trouble that the quality of an image deteriorates and was shown in drawing 10 since a gap 4 served as pinstripes and was checked by looking, since the non-display by gaps 4 and 7 was checked by looking as pinstripes and a disk, there was a trouble that image quality deteriorated.

[0010] This invention was made in order to solve the above technical problems, and it aims at the non-printed section or the non-display by the gap prepared between the printing component or the image display component acquiring the array structure of few printing components of pinstripes or a disk, and extent checked by looking, or an image display component.

[0011]

[Means for Solving the Problem] The array structure of the printing component of the one-line print head concerning this invention, or the image display component of a 1 scanning-line display mold monochrome cathode-ray tube So that the width of face of the part which is following the perpendicular direction of the non-printed section formed of a gap or a non-display may fully be narrow compared with the horizontal width of face of the appearance of the part displayed by a printing part or each image display component or zero thru/or a part may lap It is characterized by the point in which the configuration of a printing component or an image display component was formed.

[0012] Moreover, the array structure of the image display component of the electrochromatic display of 1 scanning-line display mold concerning this invention The width of face of the part which is following the perpendicular direction of the non-display formed of the gap formed between each image display component Compared with the horizontal width of face of the appearance of the part displayed by each image display component, it is fully narrow, or it is characterized by the point in which the configuration of an image display component was formed so that zero thru/or parts may overlap.

[0013] Moreover, the array structure of the image display component of the color cathode-ray tube concerning this invention, or a color liquid crystal display The area surrounded with the perpendicular given to the horizontal and array line horizontal from the outermost edge of right and left of green [which are perpendicularly arranged with regularity / the red and green], and each blue image display component, and the perpendicular given to the vertical array line from the up-and-down outermost edge It is characterized by forming the configuration of each component so that a gap narrower enough than the width of face and the height of the area concerned may be formed between the areas which adjoin each other or zero thru/or parts may overlap.

[0014] Moreover, in the above-mentioned color cathode-ray tube or a color liquid crystal display, it is characterized by forming in the magnitude from which the magnitude of red, green, and a blue image display component differs, respectively.

[0015]

[Function] According to the array structure of the printing component concerning this invention, the perpendicular direction of the non-printed section formed of the gap prepared between the adjoining printing components or the width of face of a part which is continuing horizontally Compared with the horizontal width of face of the appearance of the printing component concerned, or the height of an apparent perpendicular direction, are fully narrow, or since the configuration of the printing component concerned is formed so that zero or parts may overlap, the pinstripes or disk of a printing side stops being conspicuous.

[0016] According to the array structure of the image display component concerning this invention, the perpendicular direction of the non-display formed of the gap prepared between the adjoining image display components or the width of face of a part which is continuing horizontally Compared with the horizontal width of face of the appearance of the image display component concerned, or the height of an apparent perpendicular direction, are fully narrow, or since the configuration of the image display component concerned is formed so that zero or parts may overlap, the pinstripes or disk of an image

display side stops being conspicuous.

[0017] Moreover, red, green, and the blue rate of a compounding ratio are changeable by changing the surface ratio of red, green, and a blue image display component.

[0018]

[Example]

Example 1. drawing 1 is drawing showing the array of the printing component 2 of the one-line print head 1 which is one example of this invention. The printing component 2 is formed in a parallelogram and it is made for between the width of face d of the appearance of the printing component 2 which adjoins the horizontal width of face d of the gap of the perpendiculars 9 and 10 given to 3h of array lines, i.e., the appearance of a printing component, to serve as zero from the outermost edges 2l and 2v on either side.

[0019] According to this example 1, the non-printed section toward which width of face dh inclined is formed of a gap 4, but since the part which became what went out for every height of the printing component 2, and continued perpendicularly is lost, extent of this section [non-printed] by which this non-printed section is checked by looking as pinstripes decreases, and its quality of printing improves.

[0020] Moreover, also in the monochrome cathode-ray tube of 1 scanning-line display mold, extent by which the non-display by the gap 4 is checked by looking as pinstripes decreases similarly, and the quality of an image improves.

[0021] Example 2. drawing 2 is drawing showing other array structures of the printing component of an one-line print head, or the image display component of the monochrome cathode-ray tube of 1 scanning-line display mold. As the configuration of a printing component or the image display component 2 is formed in a parallelogram more nearly oblong than an example 1 and is shown in drawing 2 (b), it constitutes so that the width of face d of the appearance of the printing component which adjoins the width of face d of the appearance of the printing component 2 may overlap in part.

[0022] According to this example 2, extent by which the pinstripes by the gap 4 are checked by looking becomes less than an example 1, but resolution falls in the monochrome cathode-ray tube of 1 scanning-line display mold.

[0023] Example 3. drawing 3 is drawing showing the array of the image display component of the color cathode-ray tube of 1 scanning-line display mold. While applying the array structure of the image display component of an example 1 to the image display components 6G, 6R, and 6B arranged in three steps, respectively It constitutes so that between the width of face d of the appearance of the image display component with which there is the width of face d of the appearance of an up-and-down image display component, and it adjoins on the same perpendicular 9 and 10 may serve as zero.

[0024] According to this example 3, extent by which the non-display by the gap 4 is checked by looking as pinstripes decreases like an example 1, and image quality improves.

[0025] The configuration of the image display component shown in the example 2 can be applied to example 4. and the color cathode-ray tube of 1 scanning-line display mold, and the same effectiveness as an example 2 is acquired.

[0026] Example 5. drawing 4 is drawing showing other arrays of the image display component of the color cathode-ray tube of 1 scanning-line display mold. It forms in the parallelogram which has the inclination of objection by image display component 6R among the image display components 6G, 6R, and 6B of three colors. It constitutes so that the lower side of image display component 6G and the top chord of image display component 6R may face in the same horizontal position and may face in the horizontal position where the lower side of picture element 6R and the top chord of image display component 6B are the same.

[0027] According to this example 5, extent by which the non-display by the gap 4 is checked by looking as pinstripes decreases, and image quality improves. Moreover, although the anode which constitutes the color cathode-ray tube of 1 scanning-line display mold and which is not illustrated makes 1 set the image display components 6G, 6R, and 6B of three colors arranged in the lengthwise direction and is formed in these connected configurations, since the lower side, the top chord, and a top chord and the lower side of three image display components are located in the same horizontal position, the

configuration of an anode is made as for it to a simple configuration, and it becomes easy to manufacture it.

[0028] Example 6. drawing 5 is drawing showing the array of the image display component of a color cathode-ray tube, and forms in the parallelogram of dip smaller than an example 3 the image display components 6G, 6R, and 6B of the conventional example shown in drawing 9.

[0029] Since width-of-face dh of the part which is following the perpendicular direction of the non-display formed of a gap 4 becomes narrower enough than the width of face d of the appearance of an image display component to the width of face d of the appearance of an image display component according to this example 6, extent checked by looking as pinstripes decreases.

[0030] Example 7. drawing 6 is drawing showing the array of the image display component of a color liquid crystal display. The perpendiculars 9 and 10 which the image display components 6G, 6R, and 6B were formed in the parallelogram after the right, and were given to $3h$ of array lines from the both-sides outermost edges 6r and 6l. of each component, the area surrounded with the perpendiculars 11 and 12 similarly given to array line $3v$ -- a horizontal direction -- if -- a part -- lapping -- a perpendicular direction -- if -- it forms so that it may be set to gap dv smaller than the gap dv of the perpendicular direction of each image display component.

[0031] Since extent checked by looking as a disk is also reduced while extent checked by looking as pinstripes rather than an example 6 mitigates according to this example 7, the quality of an image improves. Moreover, since an about 3 inches liquid crystal panel is expanded to about 100 inches by surface ratio like a liquid crystal projector at about 1000 times in the system which carries out amplification projection of the liquid crystal panel side according to optical system, the image quality improvement effect by the example 7 is large.

[0032]

[Effect of the Invention] According to this invention, as mentioned above, the configuration of a printing component or an image display component, and its array The perpendicular direction of the non-printed section formed of the gap prepared between the adjoining printing components, Or since it considers as the configuration and array which the width of face of the part which is continuing horizontally is fully small compared with the apparent width of face or the apparent height of the printing component concerned, or does not produce at all, the effectiveness that the pinstripes or disk of a printing side stops being conspicuous, and the quality of printing improves is acquired.

[0033] Moreover, the perpendicular direction of the non-display formed of the gap prepared in the configuration of an image display component, and its array between the adjoining image display components, Or since it considers as the configuration and array which the width of face of the part which is continuing horizontally is fully small compared with the apparent width of face or the apparent height of the image display component concerned, or does not produce at all, the effectiveness that the pinstripes or disk of an image display side stops being conspicuous, and the quality of an image improves is acquired.

[0034] Moreover, the effectiveness that the red of an image and a green and blue allocation ratio are changeable into the ratio of arbitration is acquired by changing the surface ratio of red, green, and a blue image display component.

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CLAIMS

[Claim(s)]

[Claim 1] In the one-line print head which a printing component maintains a predetermined gap and it comes to arrange on a line Array structure of the printing component characterized by forming the configuration of each printing component and becoming so that the width of face of the part which is following the perpendicular direction of the non-printed section formed on a printing side of the above-mentioned gap may fully be narrower than the width of face of the appearance of the perpendicular direction of a printing part or zero thru/or parts may overlap.

[Claim 2] In the monochrome cathode-ray tube of 1 scanning-line display mold which a monochromatic image display component maintains a predetermined gap, and it comes to arrange on a line The width of face of the part which is following the perpendicular direction of the non-display formed on the display screen of the above-mentioned gap Array structure of the image display component characterized by forming the configuration of each image display component and becoming so that it may fully be narrower than the horizontal width of face of the appearance of the part displayed by each image display component or zero thru/or parts may overlap.

[Claim 3] In the 1 scan display mold color cathode-ray tube which red, green, and a blue image display component maintain a predetermined gap on three parallel lines, and it comes to arrange The width of face of the part which is following the perpendicular direction of the non-display formed on the display screen of the above-mentioned gap Array structure of the image display component characterized by forming the configuration of each image display component and becoming so that it may fully be narrower than the horizontal width of face of the appearance of the part displayed by each image display component or zero thru/or parts may overlap.

[Claim 4] In the color picture display with which it comes to arrange red, green, and a blue image display component with regularity in the direction of two dimension The perpendicular given to the horizontal array line from the outermost edge of right and left of each image display component, The area surrounded with the perpendicular similarly given to the vertical array line from the up-and-down outermost edge, Array structure of the image display component characterized by forming the configuration of each image display component and becoming so that the area of the adjoining image display component may form a gap narrower enough than the width of face and the height of the image display component concerned or zero thru/or parts may overlap.

[Claim 5] Array structure of the image display component characterized by coming to form the area of red, green, and a blue image display component in a predetermined ratio, respectively in claim 4.

[Translation done.]

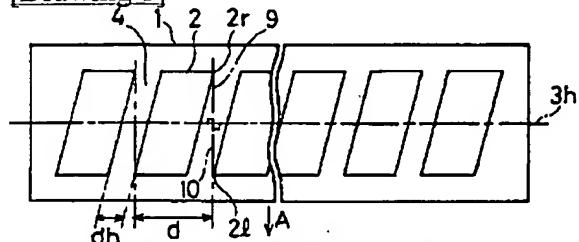
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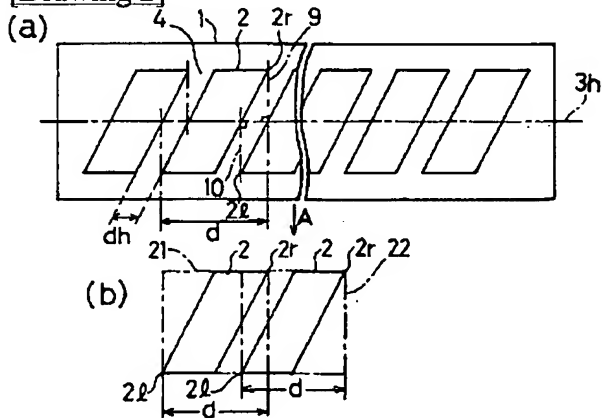
DRAWINGS

[Drawing 1]

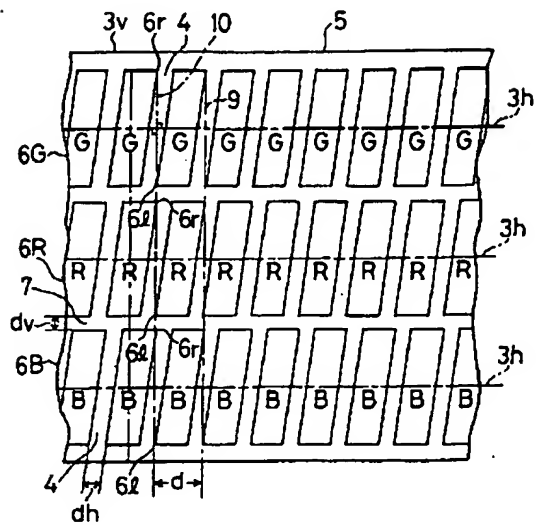


- 2 : 印字素子または画像表示素子 9, 10 : 垂線
 2r : 右側の最外端 d : 水平方向の見掛けの幅
 2l : 左側の最外端 dl : 間隙の幅

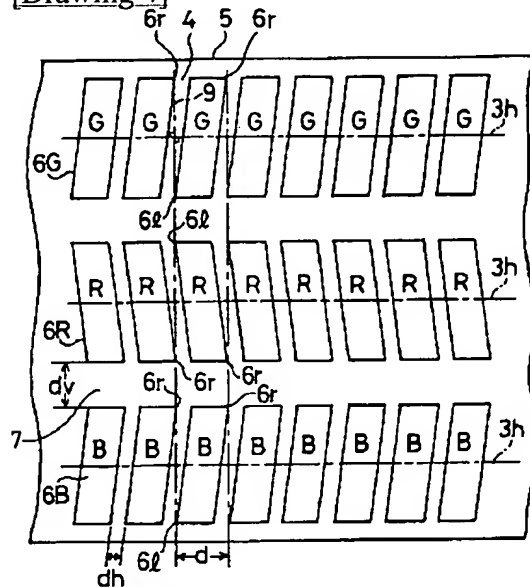
[Drawing 2]



[Drawing 3]

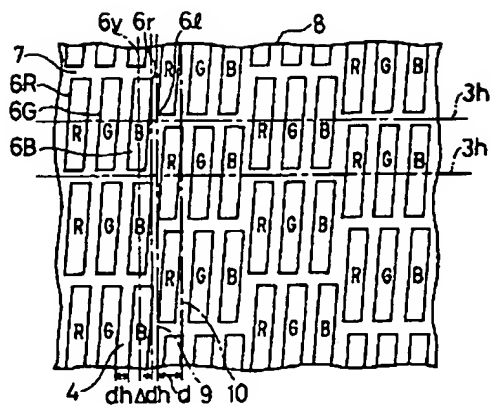


[Drawing 4]

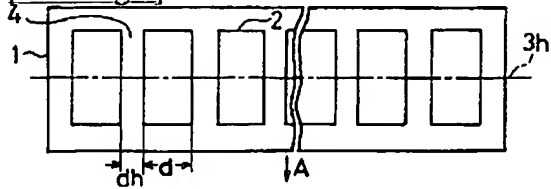


- 3h: 配列線
 4,7: 間隙
 5: 一走査線表示型カラー陰極線管の表示面
 6G,6R,6B: 画像表示素子
 6r: 画像表示素子の右側の最外端
 6l: 画像表示素子の左側の最外端
 9: 右側の最外端6rから配列線3hに下した垂線
 10: 左側の最外端6lから配列線3hに下した垂線

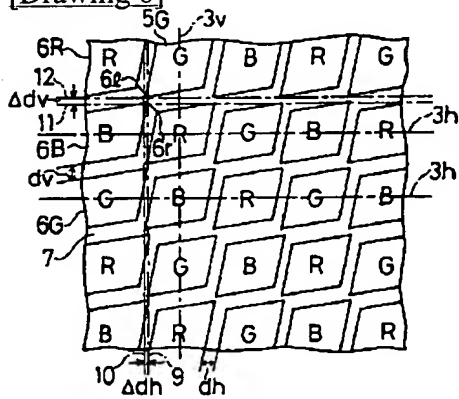
[Drawing 5]



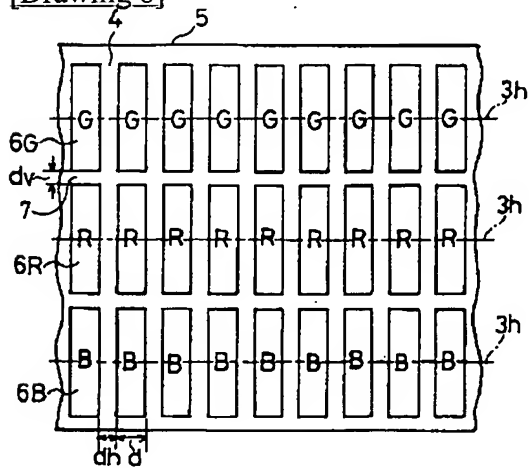
[Drawing 7]



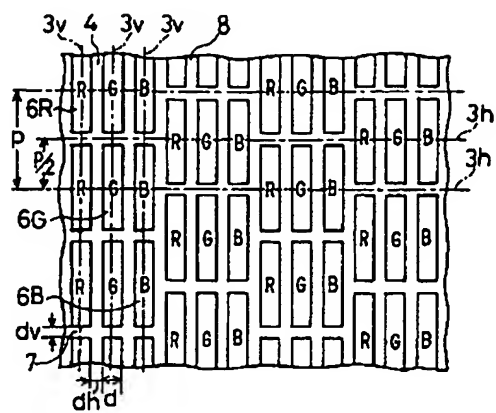
[Drawing 6]



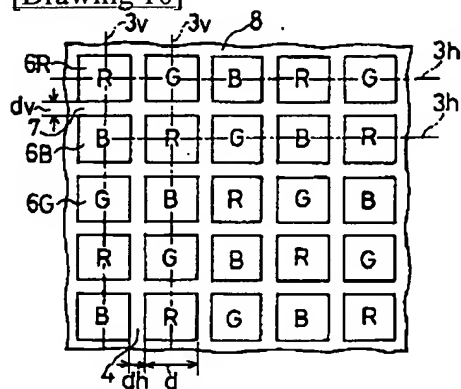
[Drawing 8]



[Drawing 9]



[Drawing 10]



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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is drawing showing that array structure with the configuration of the printing component of the example 1 of this invention, or an image display component.

[Drawing 2] It is drawing showing that array structure with the configuration of the printing component of the example 2 of this invention, or an image display component.

[Drawing 3] It is drawing showing that array structure with the configuration of the printing component of the example 3 of this invention, or an image display component.

[Drawing 4] It is drawing showing that array structure with the configuration of the printing component of the example 5 of this invention, or an image display component.

[Drawing 5] It is drawing showing that array structure with the configuration of the printing component of the example 6 of this invention, or an image display component.

[Drawing 6] It is drawing showing that array structure with the configuration of the printing component of the example 7 of this invention, or an image display component.

[Drawing 7] It is drawing showing the configuration and its array structure of the printing component of the conventional one-line print head, or the image display component of a 1 scanning-line display mold monochrome cathode-ray tube.

[Drawing 8] It is drawing showing the conventional configuration and its array structure of an image display component of a 1 scanning-line display mold color cathode-ray tube.

[Drawing 9] It is drawing showing the conventional configuration and its array structure of an image display component of a color cathode-ray tube.

[Drawing 10] It is drawing showing the conventional configuration and its array structure of an image display component of a color liquid crystal display.

[Description of Notations]

1 Screen of Print Head or 1 Scanning-Line Display Mold Monochrome Cathode-ray Tube

2 Printing Component or Image Display Component

2r The right-hand side outermost edge of a printing component or an image display component

2l The left-hand side outermost edge of a printing component or an image display component

3h Horizontal array line

3v A vertical array line

4 Gap

5 Screen of 1 Scanning-Line Display Mold Color Cathode-ray Tube

6G Green image display component

6R Red image display component

6B Blue image display component

7 Gap

8 Screen of Color Cathode-ray Tube

9 Perpendicular Given to 3H of Array Lines from the Right-hand Side Outermost Edge of Printing Component or Image Display Component

10 Perpendicular Given to 3H of Array Lines from the Left-hand Side Outermost Edge of Printing Component or Image Display Component
11 Perpendicular Given to Array Line 3V from the Right-hand Side Outermost Edge of Image Display Component
12 Perpendicular Given to Array Line 3V from the Left-hand Side Outermost Edge of Image Display Component

[Translation done.]